

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/727,780A

Source: IFWO

Date Processed by STIC: 6/16/05

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 06/16/2005

PATENT APPLICATION: US/10/727,780A

TIME: 14:57:31

Input Set : E:\03-1070\_400.139\_SeqList 6-8-05.txt

Output Set: N:\CRF4\06162005\J727780A.raw

3 <110> APPLICANT: Vaish, Narendra  
 4 Zinnen, Shawn  
 5 McSwiggen, James  
 6 Sirna Therapeutics, Inc.  
 8 <120> TITLE OF INVENTION: Inhibition of Gene Expression Using Duplex Forming  
 9 Oligonucleotides  
 11 <130> FILE REFERENCE: 03-1070 (400.139)  
 13 <140> CURRENT APPLICATION NUMBER: US 10/727,780A  
 C--> 14 <141> CURRENT FILING DATE: 2003-12-03  
 16 <160> NUMBER OF SEQ ID NOS: 772  
 20 <170> SOFTWARE: PatentIn version 3.3  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 19  
 24 <212> TYPE: RNA  
 25 <213> ORGANISM: Artificial Sequence  
 27 <220> FEATURE:  
 28 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 31 <400> SEQUENCE: 1  
 32 uccuaggacc ccugcucgu 19  
 35 <210> SEQ ID NO: 2  
 36 <211> LENGTH: 19  
 37 <212> TYPE: RNA  
 38 <213> ORGANISM: Artificial Sequence  
 40 <220> FEATURE:  
 41 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 44 <400> SEQUENCE: 2  
 45 gagucuagac ucguggugg 19  
 48 <210> SEQ ID NO: 3  
 49 <211> LENGTH: 19  
 50 <212> TYPE: RNA  
 51 <213> ORGANISM: Artificial Sequence  
 53 <220> FEATURE:  
 54 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 57 <400> SEQUENCE: 3  
 58 gugcacuucg cuucaccuc 19  
 61 <210> SEQ ID NO: 4  
 62 <211> LENGTH: 19  
 63 <212> TYPE: RNA  
 64 <213> ORGANISM: Artificial Sequence  
 66 <220> FEATURE:  
 67 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 70 <400> SEQUENCE: 4  
 71 gccauggcgu uaguaugag 19

## RAW SEQUENCE LISTING

DATE: 06/16/2005

PATENT APPLICATION: US/10/727,780A

TIME: 14:57:31

Input Set : E:\03-1070\_400.139\_SeqList 6-8-05.txt

Output Set: N:\CRF4\06162005\J727780A.raw

```

74 <210> SEQ ID NO: 5
75 <211> LENGTH: 19
76 <212> TYPE: RNA
77 <213> ORGANISM: Artificial Sequence
79 <220> FEATURE:
80 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
83 <400> SEQUENCE: 5
84 cucccgaggag agccauagu 19
87 <210> SEQ ID NO: 6
88 <211> LENGTH: 19
89 <212> TYPE: RNA
90 <213> ORGANISM: Artificial Sequence
92 <220> FEATURE:
93 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
96 <400> SEQUENCE: 6
97 accggugagu acaccgga 19
100 <210> SEQ ID NO: 7
101 <211> LENGTH: 19
102 <212> TYPE: RNA
103 <213> ORGANISM: Artificial Sequence
105 <220> FEATURE:
106 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
109 <400> SEQUENCE: 7
110 cccgggaggu cucguagac 19
113 <210> SEQ ID NO: 8
114 <211> LENGTH: 19
115 <212> TYPE: RNA
116 <213> ORGANISM: Artificial Sequence
118 <220> FEATURE:
119 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
122 <400> SEQUENCE: 8
123 uuuaaaaggc acccagcac 19
126 <210> SEQ ID NO: 9
127 <211> LENGTH: 19
128 <212> TYPE: RNA
129 <213> ORGANISM: Artificial Sequence
131 <220> FEATURE:
132 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
135 <400> SEQUENCE: 9
136 auauauauga uaaagcauu 19
139 <210> SEQ ID NO: 10
140 <211> LENGTH: 27
141 <212> TYPE: RNA
142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
147 <220> FEATURE:
149 <221> NAME/KEY: misc_feature
150 <222> LOCATION: (1)..(1)

```

## RAW SEQUENCE LISTING

DATE: 06/16/2005

PATENT APPLICATION: US/10/727,780A

TIME: 14:57:31

Input Set : E:\03-1070\_400.139\_SeqList 6-8-05.txt

Output Set: N:\CRF4\06162005\J727780A.raw

```

151 <223> OTHER INFORMATION: 5'-attached phosphate group
153 <220> FEATURE:
154 <221> NAME/KEY: misc_feature
155 <222> LOCATION: (27)..(27)
156 <223> OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
160 <400> SEQUENCE: 10
161 aaugcuuuau cauauauaug auaaaagc 27
164 <210> SEQ ID NO: 11
165 <211> LENGTH: 25
166 <212> TYPE: RNA
167 <213> ORGANISM: Artificial Sequence
169 <220> FEATURE:
170 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
172 <220> FEATURE:
173 <221> NAME/KEY: misc_feature
174 <222> LOCATION: (1)..(1)
175 <223> OTHER INFORMATION: 5'-attached phosphate
177 <220> FEATURE:
178 <221> NAME/KEY: misc_feature
179 <222> LOCATION: (25)..(25)
180 <223> OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
184 <400> SEQUENCE: 11
185 aaugcuuuau cauauaugau aaagc 25
188 <210> SEQ ID NO: 12
189 <211> LENGTH: 23
190 <212> TYPE: RNA
191 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
194 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
196 <220> FEATURE:
197 <221> NAME/KEY: misc_feature
198 <222> LOCATION: (1)..(1)
199 <223> OTHER INFORMATION: 5'-attached phosphate group
201 <220> FEATURE:
202 <221> NAME/KEY: misc_feature
203 <222> LOCATION: (23)..(23)
204 <223> OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
208 <400> SEQUENCE: 12
209 aaugcuuuau cauauaugauaa agc 23
212 <210> SEQ ID NO: 13
213 <211> LENGTH: 24
214 <212> TYPE: RNA
215 <213> ORGANISM: Artificial Sequence
217 <220> FEATURE:
218 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
220 <220> FEATURE:
221 <221> NAME/KEY: misc_feature
222 <222> LOCATION: (1)..(1)
223 <223> OTHER INFORMATION: 5'-attached phosphate group

```

## RAW SEQUENCE LISTING

DATE: 06/16/2005

PATENT APPLICATION: US/10/727,780A

TIME: 14:57:31

Input Set : E:\03-1070\_400.139\_SeqList 6-8-05.txt

Output Set: N:\CRF4\06162005\J727780A.raw

```

225 <220> FEATURE:
226 <221> NAME/KEY: misc_feature
227 <222> LOCATION: (24)..(24)
228 <223> OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
232 <400> SEQUENCE: 13
233 aaugcuuuau cauaugauaa agca 24
236 <210> SEQ ID NO: 14
237 <211> LENGTH: 28
238 <212> TYPE: RNA
239 <213> ORGANISM: Artificial Sequence
241 <220> FEATURE:
242 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
244 <220> FEATURE:
245 <221> NAME/KEY: misc_feature
246 <222> LOCATION: (1)..(1)
247 <223> OTHER INFORMATION: 5'-attached phosphate
249 <220> FEATURE:
250 <221> NAME/KEY: misc_feature
251 <222> LOCATION: (28)..(28)
252 <223> OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
256 <400> SEQUENCE: 14
257 aaugcuuuau cauaauaugau aaagcauu 28
260 <210> SEQ ID NO: 15
261 <211> LENGTH: 21
262 <212> TYPE: DNA
263 <213> ORGANISM: Artificial Sequence
265 <220> FEATURE:
266 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
268 <220> FEATURE:
269 <221> NAME/KEY: misc_feature
270 <222> LOCATION: (1)..(1)
271 <223> OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
273 <220> FEATURE:
274 <221> NAME/KEY: misc_feature
275 <222> LOCATION: (1)..(3)
276 <223> OTHER INFORMATION: 2'-deoxy
278 <220> FEATURE:
279 <221> NAME/KEY: misc_feature
280 <222> LOCATION: (4)..(5)
281 <223> OTHER INFORMATION: 2'-deoxy-2'-fluoro
283 <220> FEATURE:
284 <221> NAME/KEY: misc_feature
285 <222> LOCATION: (6)..(8)
286 <223> OTHER INFORMATION: 2'-deoxy
288 <220> FEATURE:
289 <221> NAME/KEY: misc_feature
290 <222> LOCATION: (9)..(11)
291 <223> OTHER INFORMATION: 2'-deoxy-2'-fluoro
293 <220> FEATURE:

```

## RAW SEQUENCE LISTING

DATE: 06/16/2005

PATENT APPLICATION: US/10/727,780A

TIME: 14:57:31

Input Set : E:\03-1070\_400.139\_SeqList 6-8-05.txt

Output Set: N:\CRF4\06162005\J727780A.raw

```

294 <221> NAME/KEY: misc_feature
295 <222> LOCATION: (12)..(17)
296 <223> OTHER INFORMATION: 2'-deoxy
298 <220> FEATURE:
299 <221> NAME/KEY: misc_feature
300 <222> LOCATION: (18)..(18)
301 <223> OTHER INFORMATION: 2'-deoxy-2'-fluoro
303 <220> FEATURE:
304 <221> NAME/KEY: misc_feature
305 <222> LOCATION: (19)..(19)
306 <223> OTHER INFORMATION: 2'-deoxy
308 <220> FEATURE:
309 <221> NAME/KEY: misc_feature
310 <222> LOCATION: (1)..(19)
311 <223> OTHER INFORMATION: RNA
314 <220> FEATURE:
315 <221> NAME/KEY: misc_feature
316 <222> LOCATION: (21)..(21)
317 <223> OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
321 <400> SEQUENCE: 15
322 gaacugaguu uaaaaggcat t
325 <210> SEQ ID NO: 16
326 <211> LENGTH: 21
327 <212> TYPE: DNA
328 <213> ORGANISM: Artificial Sequence
330 <220> FEATURE:
331 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
333 <220> FEATURE:
334 <221> NAME/KEY: misc_feature
335 <222> LOCATION: (1)..(1)
336 <223> OTHER INFORMATION: 2'-deoxy-2'-fluoro
338 <220> FEATURE:
339 <221> NAME/KEY: misc_feature
340 <222> LOCATION: (3)..(8)
341 <223> OTHER INFORMATION: 2'-deoxy-2'-fluoro
343 <220> FEATURE:
344 <221> NAME/KEY: misc_feature
345 <222> LOCATION: (12)..(14)
346 <223> OTHER INFORMATION: 2'-deoxy-2'-fluoro
349 <220> FEATURE:
350 <221> NAME/KEY: misc_feature
351 <222> LOCATION: (16)..(18)
352 <223> OTHER INFORMATION: 2'-deoxy-2'-fluoro
354 <220> FEATURE:
355 <221> NAME/KEY: misc_feature
356 <222> LOCATION: (1)..(19)
357 <223> OTHER INFORMATION: RNA
359 <220> FEATURE:
360 <221> NAME/KEY: misc_feature

```

21

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 06/16/2005  
PATENT APPLICATION: US/10/727,780A      TIME: 14:57:32

Input Set : E:\03-1070\_400.139\_SeqList 6-8-05.txt  
Output Set: N:\CRF4\06162005\J727780A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:21; N Pos. 20  
Seq#:23; N Pos. 20  
Seq#:25; N Pos. 20  
Seq#:27; N Pos. 20  
Seq#:29; N Pos. 20

## VERIFICATION SUMMARY

DATE: 06/16/2005

PATENT APPLICATION: US/10/727,780A

TIME: 14:57:32

Input Set : E:\03-1070\_400.139\_SeqList 6-8-05.txt

Output Set: N:\CRF4\06162005\J727780A.raw

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:588 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0  
L:641 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0  
L:694 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0  
L:748 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0  
L:803 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0